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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,226	05/06/2005	Carsten Horn	A800.081	3361
Gail Poulos	10/534,226 05/06/2005 Carsten Horn  7590 10/03/2007  Gail Poulos USDA ARS Office of Technology Transfer 5607 Sunnyside Avenue, RM 4-1184	EXAMINER		
USDA ARS Office of Technology Transfer			BERTOGLIO, VALARIE E	
5607 Sunnyside Avenue, RM 4-1184 Beltsville, MD 20705-5131			ART UNIT	PAPER NUMBER
		•	1632	
			MAIL DATE	DELIVERY MODE
			10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Annlicent(c)				
÷	Application No.	Applicant(s)				
Office Action Commence	10/534,226	HORN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Valarie Bertoglio	1632				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI  1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Th	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-48 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrest is/are allowed.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-48 are subject to restriction and/or	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the sheet of the shee	ccepted or b) objected to e drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		A.				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burest * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)				
2) Notice of References Cited (PTO-692) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application				

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## Election/Restrictions

The previous restriction requirement is hereby vacated. A new restriction requirement is set forth below.

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-10,23, 25-34 and 47, drawn to a method of targeting a heritable integration of a transgene within the genome of an <u>invertebrate</u> using a DNA cassette comprising flanking transposon half sides and an internal transposon half side and the invertebrate organism.

Group II, claim(s) 11-22,24,35-46 and 48, drawn to a method of targeting a heritable integration of a transgene within the genome of an <u>invertebrate</u> comprising exchanging a first DNA cassette comprising a mutated or non-mutated target site for a site-specific recombinase at one end and a mutated target site at the other end for a second DNA cassette by a site-specific recombinase that catalyzes recombination via homospecific recombinase target sites and the invertebrate organism.

Group III, claim(s) 25-34 and 47, drawn to a method of targeting a heritable integration of a transgene within the genome of a <u>vertebrate</u> using a DNA cassette comprising flanking transposon half sides and an internal transposon half side and the vertebrate organism.

Group IV, claim(s) 35-46 and 48, drawn to a method of targeting a heritable integration of a transgene within the genome of a <u>vertebrate</u> comprising exchanging a first DNA cassette comprising a mutated or non-mutated target site for a site-specific recombinase at one end and a mutated target site at the other end for a second DNA cassette by a site-specific recombinase that catalyzes recombination via homospecific recombinase target sites and the vertebrate organism.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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PCT Rule 13.2 requires that unity of invention exists only when there is a shared or corresponding technical feature among the claimed inventions. Applicant's claims encompass multiple inventions and do not have a special technical feature which link the inventions one to the other, and lack unity of invention. Groups I and IIII are directed to use of a DNA cassette comprising flanking transposon half sides and an internal transposon half side. Groups II and IV are directed to use of a method of targeting a heritable integration of a transgene within the genome of a vertebrate comprising exchanging a first DNA cassette comprising a mutated or non-mutated target site for a site-specific recombinase at one end and a mutated target site at the other end for a second DNA cassette by a site-specific recombinase that catalyzes recombination via homospecific recombinase target sites. Groups I and II are directed to invertebrates. Groups II and IV are directed to vertebrates.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In

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either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Valarie Bertoglio whose telephone number is (571) 272-0725. The examiner can normally be reached on Mon-Thurs 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Valarie Bertoglio, Ph.D./ Primary Examiner Art Unit 1632